Московский Авиационный Институт

(Национальный Исследовательский Университет)

Институт №8 “Компьютерные науки и прикладная математика”

Кафедра №806 “Вычислительная математика и программирование”

**Лабораторная работа №3 по курсу**

**«Операционные системы»**

Группа: М8О-215Б-23

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**Постановка задачи**

**Вариант 19.**

Составить и отладить программу на языке Си, осуществляющую работу с процессами и взаимодействие между ними в одной из двух операционных систем. В результате работы программа (основной процесс) должен создать для решение задачи один или несколько дочерних процессов. Взаимодействие между процессами осуществляется через системные сигналы/события и/или через отображаемые файлы (memory-mapped files). Необходимо обрабатывать системные ошибки, которые могут возникнуть в результате работы.

**Общий метод и алгоритм решения**

Управление процессами:

* pid\_t fork(void) – создает дочерний процесс, который является копией родительского
* int execl(const char \*path, const char \*arg, ...) – заменяет текущий процесс новой программой
* pid\_t waitpid(pid\_t pid, int \*status, int options) – ожидает изменения состояния дочернего процесса

Операции с файлами:

* int open(const char \*pathname, int flags, mode\_t mode) – открывает или создает файл
* int close(int fd) – закрывает файловый дескриптор
* int ftruncate(int fd, off\_t length) – изменяет размер файла
* int unlink(const char \*pathname) – удаляет файл из файловой системы
* FILE\* fopen(const char \*pathname, const char \*mode) – открывает поток для работы с файлом
* int fclose(FILE \*stream) – закрывает поток

Управление памятью:

* void \*mmap(void \*addr, size\_t length, int prot, int flags, int fd, off\_t offset) – отображает файл в память
* int munmap(void \*addr, size\_t length) – удаляет отображение памяти
* int msync(void \*addr, size\_t length, int flags) – синхронизирует память с физическим хранилищем

Операции с семафорами:

* sem\_t \*sem\_open(const char \*name, int oflag, mode\_t mode, unsigned int value) – создает/открывает семафор
* int sem\_close(sem\_t \*sem) – закрывает семафор
* int sem\_wait(sem\_t \*sem) – блокирует семафор (ожидание)
* int sem\_post(sem\_t \*sem) – разблокирует семафор (освобождение)
* int sem\_unlink(const char \*name) – удаляет именованный семафор

Работа со временем:

* usleep(unsigned int usec) – приостанавливает выполнение на заданное количество микросекунд

Информация о файлах:

* int fstat(int fd, struct stat \*statbuf) – получает информацию о состоянии файла

В целом метод решения идейно ничем не отличается от первой лабы. Просто здесь вместо пайпов используются MMF.

1. То есть вводим названия файлов
2. Подготавливаем файлы для MM, соответственно делаем MM
3. Инициализируем семафоры
4. Форкаем процесс для двух детей
5. В бесконечном цикле принимаем строки и направляем их в детей

Дети в свою очередь открывают мапед файлы, а так же файлы для записи. Ну и удаляют гласные

**Код программы**

**parent.cpp**

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| --- |
| #include <stdio.h>  #include <stdlib.h>  #include <string.h>  #include <ctime>  #include <fcntl.h>  #include <unistd.h>  #include <sys/mman.h>  #include <sys/wait.h>  #include <semaphore.h>  #include "common.h"  void prepareFileForMapping(const char\* filename) {  int fd = open(filename, O\_RDWR | O\_CREAT | O\_TRUNC, 0666);  if (fd == -1) {  perror("Error creating mapped file");  exit(1);  }  if (ftruncate(fd, sizeof(struct SharedData)) == -1) {  perror("Error setting file size");  close(fd);  exit(1);  }  close(fd);  }  int main() {  std::srand(std::time(nullptr));  // Создаем семафоры  sem\_t \*sem1 = sem\_open(SEM\_NAME1, O\_CREAT | O\_EXCL, 0666, 1);  sem\_t \*sem2 = sem\_open(SEM\_NAME2, O\_CREAT | O\_EXCL, 0666, 1);  if (sem1 == SEM\_FAILED || sem2 == SEM\_FAILED) {  perror("Error creating semaphores");  exit(1);  }  prepareFileForMapping(MAPPED\_FILE1);  prepareFileForMapping(MAPPED\_FILE2);  int fd1 = open(MAPPED\_FILE1, O\_RDWR);  int fd2 = open(MAPPED\_FILE2, O\_RDWR);  if (fd1 == -1 || fd2 == -1) {  perror("Error opening mapped files");  exit(1);  }  struct SharedData\* shared1 = (struct SharedData\*)mmap(NULL, sizeof(struct SharedData),  PROT\_READ | PROT\_WRITE,  MAP\_SHARED, fd1, 0);  struct SharedData\* shared2 = (struct SharedData\*)mmap(NULL, sizeof(struct SharedData),  PROT\_READ | PROT\_WRITE,  MAP\_SHARED, fd2, 0);  if (shared1 == MAP\_FAILED || shared2 == MAP\_FAILED) {  perror("Error mapping files");  exit(1);  }  shared1->size = 0;  shared1->done = 0;  shared2->size = 0;  shared2->done = 0;  char filename1[256], filename2[256];  printf("Enter filename for child1: ");  scanf("%255s", filename1);  printf("Enter filename for child2: ");  scanf("%255s", filename2);  getchar();  pid\_t child1 = fork();  if (child1 == -1) {  perror("Error creating first child");  exit(1);  }  if (child1 == 0) {  execl("./child1", "child1", filename1, NULL);  perror("Error executing child1");  exit(1);  }  pid\_t child2 = fork();  if (child2 == -1) {  perror("Error creating second child");  exit(1);  }  if (child2 == 0) {  execl("./child2", "child2", filename2, NULL);  perror("Error executing child2");  exit(1);  }  printf("Enter lines (Ctrl+D to finish):\n");  char line[MAX\_LINE];  while (fgets(line, MAX\_LINE, stdin) != NULL) {  struct SharedData\* target;  sem\_t\* current\_sem;  if ((double)rand() / RAND\_MAX < PROB\_FILE1) {  target = shared1;  current\_sem = sem1;  } else {  target = shared2;  current\_sem = sem2;  }  sem\_wait(current\_sem);  size\_t len = strlen(line);  strncpy(target->data, line, len);  target->size = len;  msync(target, sizeof(struct SharedData), MS\_SYNC);  sem\_post(current\_sem);  usleep(100000);  }  shared1->done = 1;  shared2->done = 1;  msync(shared1, sizeof(struct SharedData), MS\_SYNC);  msync(shared2, sizeof(struct SharedData), MS\_SYNC);  waitpid(child1, NULL, 0);  waitpid(child2, NULL, 0);  munmap(shared1, sizeof(struct SharedData));  munmap(shared2, sizeof(struct SharedData));  close(fd1);  close(fd2);  sem\_close(sem1);  sem\_close(sem2);  sem\_unlink(SEM\_NAME1);  sem\_unlink(SEM\_NAME2);  unlink(MAPPED\_FILE1);  unlink(MAPPED\_FILE2);  printf("All processes completed.\n");  return 0;  } |

**child1.cpp & child2.cpp**

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| #include <stdio.h>  #include <stdlib.h>  #include <string.h>  #include <ctype.h>  #include <fcntl.h>  #include <unistd.h>  #include <sys/mman.h>  #include <sys/stat.h>  #include <semaphore.h>  #include "common.h"  int isVowel(char c) {  c = tolower(c);  return (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u');  }  void removeVowels(char\* str) {  int i, j;  for (i = 0, j = 0; str[i]; i++) {  if (!isVowel(str[i])) {  str[j++] = str[i];  }  }  str[j] = '\0';  }  int main(int argc, char\* argv[]) {  if (argc != 2) {  fprintf(stderr, "Usage: %s <output\_file>\n", argv[0]);  return 1;  }  sem\_t \*sem = sem\_open(SEM\_NAME1, 0);  if (sem == SEM\_FAILED) {  perror("Error opening semaphore");  return 1;  }  int fd = open(MAPPED\_FILE1, O\_RDWR);  if (fd == -1) {  perror("Error opening mapped file");  return 1;  }  struct stat sb;  if (fstat(fd, &sb) == -1) {  perror("Error getting file size");  close(fd);  return 1;  }  struct SharedData\* shared = (struct SharedData\*)mmap(NULL, sizeof(struct SharedData),  PROT\_READ | PROT\_WRITE,  MAP\_SHARED, fd, 0);  if (shared == MAP\_FAILED) {  perror("Error mapping file");  close(fd);  return 1;  }  FILE\* outFile = fopen(argv[1], "w");  if (!outFile) {  perror("Error opening output file");  munmap(shared, sizeof(struct SharedData));  close(fd);  return 1;  }  char buffer[MAX\_LINE];  while (!shared->done || shared->size > 0) {  sem\_wait(sem);  if (shared->size > 0) {  strncpy(buffer, shared->data, shared->size);  buffer[shared->size] = '\0';  removeVowels(buffer);  fprintf(outFile, "%s", buffer);  shared->size = 0;  msync(shared, sizeof(struct SharedData), MS\_SYNC);  }  sem\_post(sem);  usleep(100000);  }  fclose(outFile);  munmap(shared, sizeof(struct SharedData));  close(fd);  sem\_close(sem);  return 0;  } |

**common.h**

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| #ifndef COMMON\_H  #define COMMON\_H  #define MAX\_LINE 1000  #define SHARED\_MEM\_SIZE (MAX\_LINE \* 100)  #define PROB\_FILE1 0.8  #define MAPPED\_FILE1 "/tmp/mapped\_file1"  #define MAPPED\_FILE2 "/tmp/mapped\_file2"  #define SEM\_NAME1 "/mysem1"  #define SEM\_NAME2 "/mysem2"  struct SharedData {  char data[SHARED\_MEM\_SIZE];  size\_t size;  bool done;  };  #endif |

**Протокол работы программы**

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| den4ik2975@den4ikpc:~/CLionProjects/MAI\_OS\_Labs/Labs/Lab3/src$ g++ -o parent parent.cpp  den4ik2975@den4ikpc:~/CLionProjects/MAI\_OS\_Labs/Labs/Lab3/src$ g++ -o child1 child1.cpp  den4ik2975@den4ikpc:~/CLionProjects/MAI\_OS\_Labs/Labs/Lab3/src$ g++ -o child2 child2.cpp  den4ik2975@den4ikpc:~/CLionProjects/MAI\_OS\_Labs/Labs/Lab3/src$ ./parent  Enter filename for child1: aboba  Enter filename for child2: abiba  Enter lines (Ctrl+D to finish):  ak  al  an  am  nodsfbnofsoegseoigsio  egsgsegsregrner  olollllllloololo  dodododo  oj  cock  All processes completed.  den4ik2975@den4ikpc:~/CLionProjects/MAI\_OS\_Labs/Labs/Lab3/src$ cat aboba  l  n  ndsfbnfsgsgs  dddd  j  den4ik2975@den4ikpc:~/CLionProjects/MAI\_OS\_Labs/Labs/Lab3/src$ cat abiba  m  cck |

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| --- |
| **29663 execve("./parent", ["./parent"], 0x7ffd86804068 /\* 32 vars \*/) = 0**  **29663 brk(NULL) = 0x56362b689000**  **29663 arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7ffeb9fa4d60) = -1 EINVAL (Invalid argument)**  **29663 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f707e1a2000**  **29663 access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (No such file or directory)**  **29663 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3**  **29663 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=20627, ...}, AT\_EMPTY\_PATH) = 0**  **29663 mmap(NULL, 20627, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f707e19c000**  **29663 close(3) = 0**  **29663 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 3**  **29663 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832**  **29663 pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784**  **29663 pread64(3, "\4\0\0\0 \0\0\0\5\0\0\0GNU\0\2\0\0\300\4\0\0\0\3\0\0\0\0\0\0\0"..., 48, 848) = 48**  **29663 pread64(3, "\4\0\0\0\24\0\0\0\3\0\0\0GNU\0I\17\357\204\3$\f\221\2039x\324\224\323\236S"..., 68, 896) = 68**  **29663 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=2220400, ...}, AT\_EMPTY\_PATH) = 0**  **29663 pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784**  **29663 mmap(NULL, 2264656, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f707df73000**  **29663 mprotect(0x7f707df9b000, 2023424, PROT\_NONE) = 0**  **29663 mmap(0x7f707df9b000, 1658880, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x28000) = 0x7f707df9b000**  **29663 mmap(0x7f707e130000, 360448, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1bd000) = 0x7f707e130000**  **29663 mmap(0x7f707e189000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x215000) = 0x7f707e189000**  **29663 mmap(0x7f707e18f000, 52816, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f707e18f000**  **29663 close(3) = 0**  **29663 mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f707df70000**  **29663 arch\_prctl(ARCH\_SET\_FS, 0x7f707df70740) = 0**  **29663 set\_tid\_address(0x7f707df70a10) = 29663**  **29663 set\_robust\_list(0x7f707df70a20, 24) = 0**  **29663 rseq(0x7f707df710e0, 0x20, 0, 0x53053053) = 0**  **29663 mprotect(0x7f707e189000, 16384, PROT\_READ) = 0**  **29663 mprotect(0x56361f2d0000, 4096, PROT\_READ) = 0**  **29663 mprotect(0x7f707e1dc000, 8192, PROT\_READ) = 0**  **29663 prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0**  **29663 munmap(0x7f707e19c000, 20627) = 0**  **29663 getrandom("\x07\xd4\xa0\x53\x10\x7c\xa7\xa6", 8, GRND\_NONBLOCK) = 8**  **29663 newfstatat(AT\_FDCWD, "/dev/shm/sem.9hShcK", 0x7ffeb9fa4470, AT\_SYMLINK\_NOFOLLOW) = -1 ENOENT (No such file or directory)**  **29663 openat(AT\_FDCWD, "/dev/shm/sem.9hShcK", O\_RDWR|O\_CREAT|O\_EXCL, 0666) = 3**  **29663 write(3, "\1\0\0\0\0\0\0\0\200\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0", 32) = 32**  **29663 mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) = 0x7f707e1db000**  **29663 link("/dev/shm/sem.9hShcK", "/dev/shm/sem.mysem1") = 0**  **29663 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0**  **29663 getrandom("\x4f\xb4\x05\xdd\xb8\xc5\xf2\x4b", 8, GRND\_NONBLOCK) = 8**  **29663 brk(NULL) = 0x56362b689000**  **29663 brk(0x56362b6aa000) = 0x56362b6aa000**  **29663 unlink("/dev/shm/sem.9hShcK") = 0**  **29663 close(3) = 0**  **29663 getrandom("\x26\x0f\x56\x99\xe8\x8c\xe8\x3b", 8, GRND\_NONBLOCK) = 8**  **29663 newfstatat(AT\_FDCWD, "/dev/shm/sem.2Ski2i", 0x7ffeb9fa4470, AT\_SYMLINK\_NOFOLLOW) = -1 ENOENT (No such file or directory)**  **29663 openat(AT\_FDCWD, "/dev/shm/sem.2Ski2i", O\_RDWR|O\_CREAT|O\_EXCL, 0666) = 3**  **29663 write(3, "\1\0\0\0\0\0\0\0\200\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0", 32) = 32**  **29663 mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) = 0x7f707e1a1000**  **29663 link("/dev/shm/sem.2Ski2i", "/dev/shm/sem.mysem2") = 0**  **29663 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0**  **29663 unlink("/dev/shm/sem.2Ski2i") = 0**  **29663 close(3) = 0**  **29663 openat(AT\_FDCWD, "/tmp/mapped\_file1", O\_RDWR|O\_CREAT|O\_TRUNC, 0666) = 3**  **29663 ftruncate(3, 100016) = 0**  **29663 close(3) = 0**  **29663 openat(AT\_FDCWD, "/tmp/mapped\_file2", O\_RDWR|O\_CREAT|O\_TRUNC, 0666) = 3**  **29663 ftruncate(3, 100016) = 0**  **29663 close(3) = 0**  **29663 openat(AT\_FDCWD, "/tmp/mapped\_file1", O\_RDWR) = 3**  **29663 openat(AT\_FDCWD, "/tmp/mapped\_file2", O\_RDWR) = 4**  **29663 mmap(NULL, 100016, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) = 0x7f707df57000**  **29663 mmap(NULL, 100016, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) = 0x7f707df3e000**  **29663 newfstatat(1, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0x3), ...}, AT\_EMPTY\_PATH) = 0**  **29663 newfstatat(0, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0x3), ...}, AT\_EMPTY\_PATH) = 0**  **29663 write(1, "Enter filename for child1: ", 27) = 27**  **29663 read(0, "aboba\n", 1024) = 6**  **29663 write(1, "Enter filename for child2: ", 27) = 27**  **29663 read(0, "abiba\n", 1024) = 6**  **29663 clone(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD, child\_tidptr=0x7f707df70a10) = 29668**  **29668 set\_robust\_list(0x7f707df70a20, 24 <unfinished ...>**  **29663 clone(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD <unfinished ...>**  **29668 <... set\_robust\_list resumed>) = 0**  **29668 execve("./child1", ["child1", "aboba"], 0x7ffeb9fa4f38 /\* 32 vars \*/ <unfinished ...>**  **29663 <... clone resumed>, child\_tidptr=0x7f707df70a10) = 29669**  **29669 set\_robust\_list(0x7f707df70a20, 24 <unfinished ...>**  **29663 write(1, "Enter lines (Ctrl+D to finish):\n", 32 <unfinished ...>**  **29669 <... set\_robust\_list resumed>) = 0**  **29663 <... write resumed>) = 32**  **29669 execve("./child2", ["child2", "abiba"], 0x7ffeb9fa4f38 /\* 32 vars \*/ <unfinished ...>**  **29663 read(0, <unfinished ...>**  **29668 <... execve resumed>) = 0**  **29668 brk(NULL) = 0x563d749b0000**  **29669 <... execve resumed>) = 0**  **29669 brk(NULL <unfinished ...>**  **29668 arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7ffc44aa0ca0 <unfinished ...>**  **29669 <... brk resumed>) = 0x55cd6fd91000**  **29668 <... arch\_prctl resumed>) = -1 EINVAL (Invalid argument)**  **29669 arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7fffbda76c40 <unfinished ...>**  **29668 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>**  **29669 <... arch\_prctl resumed>) = -1 EINVAL (Invalid argument)**  **29668 <... mmap resumed>) = 0x7f3cfb8dd000**  **29669 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>**  **29668 access("/etc/ld.so.preload", R\_OK <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3bb2f000**  **29668 <... access resumed>) = -1 ENOENT (No such file or directory)**  **29669 access("/etc/ld.so.preload", R\_OK <unfinished ...>**  **29668 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC <unfinished ...>**  **29669 <... access resumed>) = -1 ENOENT (No such file or directory)**  **29668 <... openat resumed>) = 5**  **29669 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC <unfinished ...>**  **29668 newfstatat(5, "", <unfinished ...>**  **29669 <... openat resumed>) = 5**  **29668 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=20627, ...}, AT\_EMPTY\_PATH) = 0**  **29669 newfstatat(5, "", <unfinished ...>**  **29668 mmap(NULL, 20627, PROT\_READ, MAP\_PRIVATE, 5, 0 <unfinished ...>**  **29669 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=20627, ...}, AT\_EMPTY\_PATH) = 0**  **29668 <... mmap resumed>) = 0x7f3cfb8d7000**  **29669 mmap(NULL, 20627, PROT\_READ, MAP\_PRIVATE, 5, 0 <unfinished ...>**  **29668 close(5 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3bb29000**  **29668 <... close resumed>) = 0**  **29669 close(5 <unfinished ...>**  **29668 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>**  **29669 <... close resumed>) = 0**  **29668 <... openat resumed>) = 5**  **29669 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>**  **29668 read(5, <unfinished ...>**  **29669 <... openat resumed>) = 5**  **29669 read(5, <unfinished ...>**  **29668 <... read resumed>"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832**  **29669 <... read resumed>"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832**  **29668 pread64(5, <unfinished ...>**  **29669 pread64(5, <unfinished ...>**  **29668 <... pread64 resumed>"\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784**  **29669 <... pread64 resumed>"\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784**  **29668 pread64(5, <unfinished ...>**  **29669 pread64(5, <unfinished ...>**  **29668 <... pread64 resumed>"\4\0\0\0 \0\0\0\5\0\0\0GNU\0\2\0\0\300\4\0\0\0\3\0\0\0\0\0\0\0"..., 48, 848) = 48**  **29669 <... pread64 resumed>"\4\0\0\0 \0\0\0\5\0\0\0GNU\0\2\0\0\300\4\0\0\0\3\0\0\0\0\0\0\0"..., 48, 848) = 48**  **29669 pread64(5, <unfinished ...>**  **29668 pread64(5, <unfinished ...>**  **29669 <... pread64 resumed>"\4\0\0\0\24\0\0\0\3\0\0\0GNU\0I\17\357\204\3$\f\221\2039x\324\224\323\236S"..., 68, 896) = 68**  **29668 <... pread64 resumed>"\4\0\0\0\24\0\0\0\3\0\0\0GNU\0I\17\357\204\3$\f\221\2039x\324\224\323\236S"..., 68, 896) = 68**  **29669 newfstatat(5, "", <unfinished ...>**  **29668 newfstatat(5, "", <unfinished ...>**  **29669 <... newfstatat resumed>{st\_mode=S\_IFREG|0755, st\_size=2220400, ...}, AT\_EMPTY\_PATH) = 0**  **29668 <... newfstatat resumed>{st\_mode=S\_IFREG|0755, st\_size=2220400, ...}, AT\_EMPTY\_PATH) = 0**  **29669 pread64(5, <unfinished ...>**  **29668 pread64(5, <unfinished ...>**  **29669 <... pread64 resumed>"\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784**  **29668 <... pread64 resumed>"\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784**  **29669 mmap(NULL, 2264656, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 5, 0 <unfinished ...>**  **29668 mmap(NULL, 2264656, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 5, 0 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3b900000**  **29668 <... mmap resumed>) = 0x7f3cfb6ae000**  **29669 mprotect(0x7f8f3b928000, 2023424, PROT\_NONE <unfinished ...>**  **29668 mprotect(0x7f3cfb6d6000, 2023424, PROT\_NONE <unfinished ...>**  **29669 <... mprotect resumed>) = 0**  **29668 <... mprotect resumed>) = 0**  **29669 mmap(0x7f8f3b928000, 1658880, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x28000 <unfinished ...>**  **29668 mmap(0x7f3cfb6d6000, 1658880, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x28000 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3b928000**  **29668 <... mmap resumed>) = 0x7f3cfb6d6000**  **29669 mmap(0x7f8f3babd000, 360448, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x1bd000 <unfinished ...>**  **29668 mmap(0x7f3cfb86b000, 360448, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x1bd000 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3babd000**  **29668 <... mmap resumed>) = 0x7f3cfb86b000**  **29669 mmap(0x7f8f3bb16000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x215000 <unfinished ...>**  **29668 mmap(0x7f3cfb8c4000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x215000 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3bb16000**  **29668 <... mmap resumed>) = 0x7f3cfb8c4000**  **29669 mmap(0x7f8f3bb1c000, 52816, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>**  **29668 mmap(0x7f3cfb8ca000, 52816, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3bb1c000**  **29668 <... mmap resumed>) = 0x7f3cfb8ca000**  **29669 close(5 <unfinished ...>**  **29668 close(5 <unfinished ...>**  **29669 <... close resumed>) = 0**  **29668 <... close resumed>) = 0**  **29669 mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>**  **29668 mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3b8fd000**  **29668 <... mmap resumed>) = 0x7f3cfb6ab000**  **29669 arch\_prctl(ARCH\_SET\_FS, 0x7f8f3b8fd740 <unfinished ...>**  **29668 arch\_prctl(ARCH\_SET\_FS, 0x7f3cfb6ab740 <unfinished ...>**  **29669 <... arch\_prctl resumed>) = 0**  **29668 <... arch\_prctl resumed>) = 0**  **29669 set\_tid\_address(0x7f8f3b8fda10 <unfinished ...>**  **29668 set\_tid\_address(0x7f3cfb6aba10 <unfinished ...>**  **29669 <... set\_tid\_address resumed>) = 29669**  **29668 <... set\_tid\_address resumed>) = 29668**  **29669 set\_robust\_list(0x7f8f3b8fda20, 24 <unfinished ...>**  **29668 set\_robust\_list(0x7f3cfb6aba20, 24 <unfinished ...>**  **29669 <... set\_robust\_list resumed>) = 0**  **29668 <... set\_robust\_list resumed>) = 0**  **29669 rseq(0x7f8f3b8fe0e0, 0x20, 0, 0x53053053 <unfinished ...>**  **29668 rseq(0x7f3cfb6ac0e0, 0x20, 0, 0x53053053 <unfinished ...>**  **29669 <... rseq resumed>) = 0**  **29668 <... rseq resumed>) = 0**  **29669 mprotect(0x7f8f3bb16000, 16384, PROT\_READ <unfinished ...>**  **29668 mprotect(0x7f3cfb8c4000, 16384, PROT\_READ <unfinished ...>**  **29669 <... mprotect resumed>) = 0**  **29668 <... mprotect resumed>) = 0**  **29669 mprotect(0x55cd47753000, 4096, PROT\_READ <unfinished ...>**  **29668 mprotect(0x563d6e501000, 4096, PROT\_READ <unfinished ...>**  **29669 <... mprotect resumed>) = 0**  **29668 <... mprotect resumed>) = 0**  **29669 mprotect(0x7f8f3bb69000, 8192, PROT\_READ <unfinished ...>**  **29668 mprotect(0x7f3cfb917000, 8192, PROT\_READ <unfinished ...>**  **29669 <... mprotect resumed>) = 0**  **29668 <... mprotect resumed>) = 0**  **29669 prlimit64(0, RLIMIT\_STACK, NULL, <unfinished ...>**  **29668 prlimit64(0, RLIMIT\_STACK, NULL, <unfinished ...>**  **29669 <... prlimit64 resumed>{rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0**  **29668 <... prlimit64 resumed>{rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0**  **29669 munmap(0x7f8f3bb29000, 20627 <unfinished ...>**  **29668 munmap(0x7f3cfb8d7000, 20627 <unfinished ...>**  **29669 <... munmap resumed>) = 0**  **29668 <... munmap resumed>) = 0**  **29669 openat(AT\_FDCWD, "/dev/shm/sem.mysem1", O\_RDWR|O\_NOFOLLOW <unfinished ...>**  **29668 openat(AT\_FDCWD, "/dev/shm/sem.mysem1", O\_RDWR|O\_NOFOLLOW <unfinished ...>**  **29669 <... openat resumed>) = 5**  **29668 <... openat resumed>) = 5**  **29669 newfstatat(5, "", <unfinished ...>**  **29668 newfstatat(5, "", <unfinished ...>**  **29669 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0**  **29668 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0**  **29669 getrandom( <unfinished ...>**  **29668 getrandom( <unfinished ...>**  **29669 <... getrandom resumed>"\xf2\x52\xa1\xfe\x1b\x8b\xe4\x0a", 8, GRND\_NONBLOCK) = 8**  **29668 <... getrandom resumed>"\x00\x79\x19\x85\xf3\x6a\xd7\x6e", 8, GRND\_NONBLOCK) = 8**  **29669 brk(NULL <unfinished ...>**  **29668 brk(NULL <unfinished ...>**  **29669 <... brk resumed>) = 0x55cd6fd91000**  **29668 <... brk resumed>) = 0x563d749b0000**  **29669 brk(0x55cd6fdb2000 <unfinished ...>**  **29668 brk(0x563d749d1000 <unfinished ...>**  **29669 <... brk resumed>) = 0x55cd6fdb2000**  **29668 <... brk resumed>) = 0x563d749d1000**  **29669 mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 5, 0 <unfinished ...>**  **29668 mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 5, 0 <unfinished ...>**  **29669 <... mmap resumed>) = 0x7f8f3bb68000**  **29669 close(5 <unfinished ...>**  **29668 <... mmap resumed>) = 0x7f3cfb916000**  **29669 <... close resumed>) = 0**  **29668 close(5 <unfinished ...>**  **29669 openat(AT\_FDCWD, "/tmp/mapped\_file1", O\_RDWR <unfinished ...>**  **29668 <... close resumed>) = 0**  **29669 <... openat resumed>) = 5**  **29668 openat(AT\_FDCWD, "/tmp/mapped\_file1", O\_RDWR <unfinished ...>**  **29669 newfstatat(5, "", <unfinished ...>**  **29668 <... openat resumed>) = 5**  **29669 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=100016, ...}, AT\_EMPTY\_PATH) = 0**  **29668 newfstatat(5, "", <unfinished ...>**  **29669 mmap(NULL, 100016, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 5, 0) = 0x7f8f3b8e4000**  **29668 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=100016, ...}, AT\_EMPTY\_PATH) = 0**  **29669 openat(AT\_FDCWD, "abiba", O\_WRONLY|O\_CREAT|O\_TRUNC, 0666 <unfinished ...>**  **29668 mmap(NULL, 100016, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 5, 0) = 0x7f3cfb692000**  **29669 <... openat resumed>) = 6**  **29668 openat(AT\_FDCWD, "aboba", O\_WRONLY|O\_CREAT|O\_TRUNC, 0666 <unfinished ...>**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... openat resumed>) = 6**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, 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<... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... read resumed>"abababaababqa\n", 1024) = 14**  **29663 msync(0x7f707df57000, 100016, MS\_SYNC) = 0**  **29663 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 newfstatat(6, "", {st\_mode=S\_IFREG|0644, st\_size=0, ...}, AT\_EMPTY\_PATH) = 0**  **29668 msync(0x7f3cfb692000, 100016, MS\_SYNC) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... clock\_nanosleep resumed>NULL) = 0**  **29663 read(0, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 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tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... read resumed>"okokokook\n", 1024) = 10**  **29663 msync(0x7f707df57000, 100016, MS\_SYNC) = 0**  **29663 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 newfstatat(6, "", {st\_mode=S\_IFREG|0644, st\_size=0, ...}, AT\_EMPTY\_PATH) = 0**  **29669 msync(0x7f8f3b8e4000, 100016, MS\_SYNC) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... clock\_nanosleep resumed>NULL) = 0**  **29663 read(0, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, NULL) = 0**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... read resumed>"ihihihhi\n", 1024) = 9**  **29663 msync(0x7f707df57000, 100016, MS\_SYNC) = 0**  **29663 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 msync(0x7f8f3b8e4000, 100016, MS\_SYNC) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... clock\_nanosleep resumed>NULL) = 0**  **29663 read(0, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>**  **29663 <... read resumed>"", 1024) = 0**  **29663 msync(0x7f707df57000, 100016, MS\_SYNC) = 0**  **29663 msync(0x7f707df3e000, 100016, MS\_SYNC) = 0**  **29663 wait4(29668, <unfinished ...>**  **29669 <... clock\_nanosleep resumed>NULL) = 0**  **29669 write(6, "kkkk\nhhhh\n", 10) = 10**  **29669 close(6) = 0**  **29669 munmap(0x7f8f3b8e4000, 100016) = 0**  **29669 close(5) = 0**  **29669 munmap(0x7f8f3bb68000, 32) = 0**  **29669 exit\_group(0) = ?**  **29669 +++ exited with 0 +++**  **29663 <... wait4 resumed>NULL, 0, NULL) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)**  **29663 --- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=29669, si\_uid=1000, si\_status=0, si\_utime=0, si\_stime=2} ---**  **29663 wait4(29668, <unfinished ...>**  **29668 <... clock\_nanosleep resumed>NULL) = 0**  **29668 write(6, "bbbbbq\n", 7) = 7**  **29668 close(6) = 0**  **29668 munmap(0x7f3cfb692000, 100016) = 0**  **29668 close(5) = 0**  **29668 munmap(0x7f3cfb916000, 32) = 0**  **29668 exit\_group(0) = ?**  **29668 +++ exited with 0 +++**  **29663 <... wait4 resumed>NULL, 0, NULL) = 29668**  **29663 --- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=29668, si\_uid=1000, si\_status=0, si\_utime=0, si\_stime=2} ---**  **29663 wait4(29669, NULL, 0, NULL) = 29669**  **29663 munmap(0x7f707df57000, 100016) = 0**  **29663 munmap(0x7f707df3e000, 100016) = 0**  **29663 close(3) = 0**  **29663 close(4) = 0**  **29663 munmap(0x7f707e1db000, 32) = 0**  **29663 munmap(0x7f707e1a1000, 32) = 0**  **29663 unlink("/dev/shm/sem.mysem1") = 0**  **29663 unlink("/dev/shm/sem.mysem2") = 0**  **29663 unlink("/tmp/mapped\_file1") = 0**  **29663 unlink("/tmp/mapped\_file2") = 0**  **29663 write(1, "All processes completed.\n", 25) = 25**  **29663 exit\_group(0) = ?**  **29663 +++ exited with 0 +++** |

**Вывод**

Интересно было повозится и разобраться с MMF файлами. Не понял зачем семафор если честно, у меня и без него работало, но сказали надо.